



q-suite User Manual

Warehouse Management Solutions
for individual users and
small businesses

q d a t a inc.

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1. q-suite Overview

q-suite is an easy-to-use, modular suite of mobile WMS applications. These applications are designed to allow users to gather information in the warehouse using mobile devices, generate reports, and export data for analysis. q-suite provides businesses with the information they require to gain visibility and insight into their inventory and warehouse operations.

q-suite is comprised of three application modules: q-count, q-track and q-move. Each module is designed to fulfill a specific role within a warehouse/asset management system. q-count is a module that supports cycle counting functionality; q-track is an asset tracking program, and q-move is an inventory management application.

The data that is collected through the q-suite modules is stored in a flat file format as comma-delimited values. The flat file data can subsequently be transferred from a mobile device to a permanent storage repository such as a database or ERP system.

1.1 Login Screen

After launching q-suite, the login screen will be displayed as shown below.

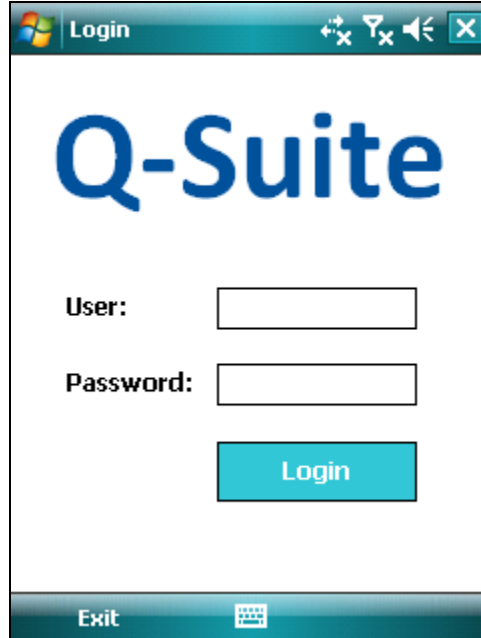


Figure 1: Login screen

Any alphanumeric value can be supplied for the user field. After entering a value for the user, press [Enter] or click the [Login] button to proceed. The password field is

not currently used, and may be left blank. To quit the application, click the [Exit] button on the lower menu bar.

1.2 Main Menu

After logging into q-suite, the main menu will be displayed. The main menu is a starting point from which the three application modules in q-suite can be launched. To launch an application, click on the corresponding button.



Figure 2: Main menu with application buttons

Clicking the [Menu] button on the lower menu bar displays a [Setup] and [Exit] option. To quit the application, click on the [Menu] button and then [Exit]. To enter the configuration screen and change application settings, click on [Menu] [Setup].

1.3 Configuration

Clicking on the [Setup] option in the main menu will launch the configuration screen. The configuration screen consists of a series of tabs that organize the application settings. The system tab contains global settings that are common to all of the q-suite modules.

The printer setup section enables users to setup a connection to a printer for wireless printing. To do this, enter the IP address of a network printer that is accessible to the mobile device, and also its network printer port (typically 9100). Click the [Test] button to print a test page and verify that the settings are working.

Click the [Save] button to save any configuration changes to file. Click [Close] to exit the configuration screen and return to the main menu. The other configuration tabs are documented in the sections for each respective application module.

Configuration

Printer Setup

Printer IP: 172.29.5.10

Port #: 9100 Test

System Q-Count Q-Track Q-Move

Close Keyboard Icon Save

Figure 3: Configuration screen

2. q-count

q-count is the cycle-counting module within qQ-suite; it can be used to gather information on inventory levels for both serialized and non-serialized parts.

2.1 Data Collection Fields

Cycle count information is gathered through a series of data collection fields shown in the table below.

Field Name	Description	Data Type	Field Length
WHSE	Warehouse	String	32
LOC	Location	String	32
PART	Part number	String	32
DESC	Description (Read-only)	String	256
SERIAL	Serial number	String	64
QTY	Quantity	Integer	N/A

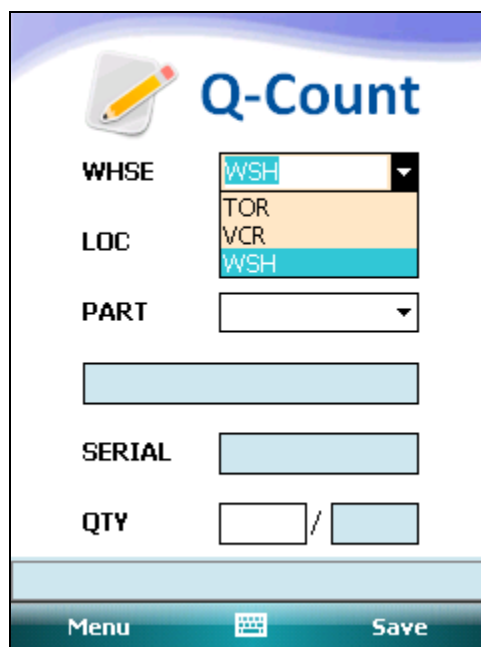
The WHSE, LOC and PART fields are dropdown lists that can be used optionally to select a value from a list, or scan a value from a barcode. After selecting a value, press 'Enter' to submit the input and the focus will switch to the next sequential

field. Alternatively, you may also input a value by scanning a barcode. Repeat this process until all the data fields have been filled and click [Save] to complete a cycle count operation. A more detailed view of the cycle count process is provided in the following section.

Note: The barcode scanner should be configured to generate a carriage return keystroke after completing a scan. This is how q-suite is able to determine the end of a scan operation.

2.2 Cycle Count Procedure

1) Select/scan a warehouse



The screenshot displays the 'Q-Count' application interface. At the top left is a notepad icon, and the title 'Q-Count' is in blue. Below the title, there are several input fields: 'WHSE' with a dropdown menu showing 'WSH' selected, 'LOC' with a dropdown menu showing 'TOR', 'VCR', and 'WSH' (with 'WSH' highlighted), 'PART' with a dropdown arrow, an empty light blue text box, 'SERIAL' with a light blue text box, and 'QTY' with two light blue text boxes separated by a slash. At the bottom is a dark blue bar with 'Menu', a keyboard icon, and 'Save'.

Figure 4: Warehouse field

2) Select/scan a location

The screenshot shows the 'Q-Count' mobile application interface. At the top, there is a logo of a notepad and pencil next to the title 'Q-Count'. Below the title, there are several input fields: 'WHSE' with a dropdown menu showing 'WSH', 'LOC' with a dropdown menu showing 'LOC1', and 'PART' with a dropdown menu showing 'LOC1', 'LOC2', and 'LOC3'. Below these fields is a large empty text area. At the bottom, there are fields for 'SERIAL' and 'QTY' (with a slash and a box). The bottom navigation bar contains 'Menu', a keyboard icon, and 'Save'.

Figure 5: Location field

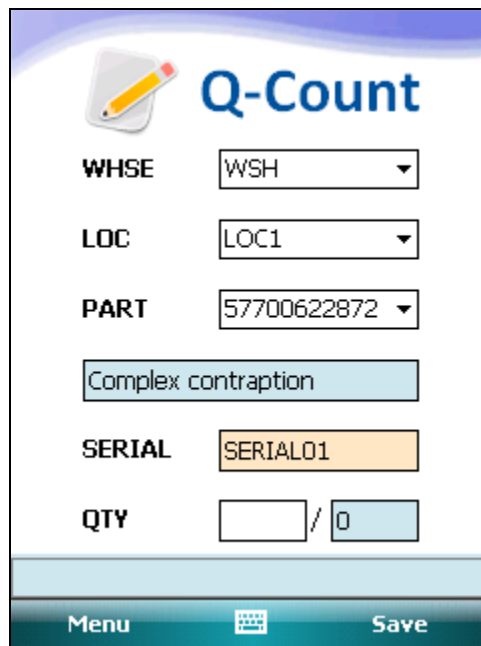
3) Select/scan a part number

After scanning a part, the description (if available) will automatically be populated in the description field below it. The total part quantity, based on the location and part number, will also be populated. In this example, there are 12 items in inventory for part 02202806 in location LOC1. In addition, the serial field will be enabled or disabled depending on whether the part is serialized.

The screenshot shows the 'Q-Count' mobile application interface after a part number has been scanned. The 'WHSE' dropdown still shows 'WSH'. The 'LOC' dropdown now shows 'LOC1'. The 'PART' dropdown now shows '57700622872'. Below the 'PART' field, the description 'Complex contraption' is populated in the text area. The 'SERIAL' field is now enabled. The 'QTY' field shows a slash and the number '0'. The bottom navigation bar remains the same with 'Menu', a keyboard icon, and 'Save'.

Figure 6: Part and description fields

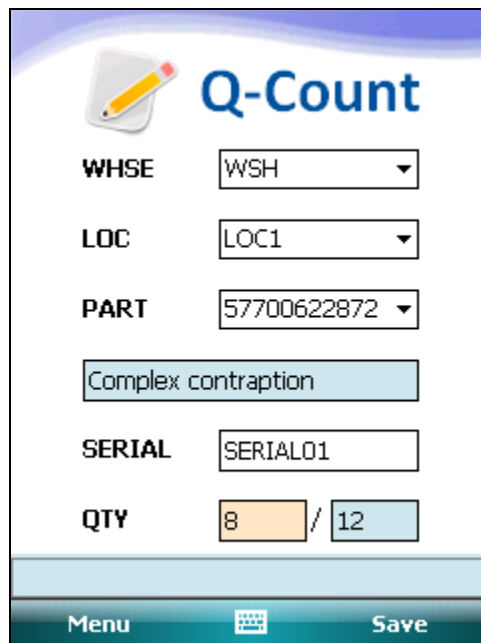
4) Scan a serial number (if required)



The image shows a mobile application interface titled "Q-Count" with a notepad icon. It contains several input fields: "WHSE" with a dropdown menu showing "WSH", "LOC" with a dropdown menu showing "LOC1", "PART" with a dropdown menu showing "57700622872", a text field containing "Complex contraption", "SERIAL" with a text field showing "SERIAL01", and "QTY" with two adjacent input boxes, the first of which is empty. At the bottom, there is a navigation bar with "Menu", a keyboard icon, and "Save".

Figure 7: Serial number field

5) Enter count quantity



The image shows the same "Q-Count" mobile application interface as Figure 7, but with the "QTY" field updated. The first input box now contains the number "8", and the second input box contains "12". All other fields remain the same as in Figure 7.

Figure 8: Quantity field

After entering a quantity value, press 'Enter' or click the [Save] button to complete the cycle count operation. This will store the information that was entered in a database so that the information can later be reviewed in a summary report or exported to a text file.

2.3 Inserting New Field Values

Whenever data is entered into a field, Q-count will validate the input against a database to verify whether the data exists. This helps to prevent incorrect data from being entered inadvertently. However, there are valid instances when a user may wish to input values that do not exist in the database, such as inserting a new field value.

When Q-count encounters a new field value, it will display a prompt to the user to ask whether they wish to insert the new value. Clicking [Yes] will insert the value into the database, while [No] will cancel the operation.

In the special case where a new part value is inserted, Q-count will also prompt the user to determine whether the part is serialized or not.

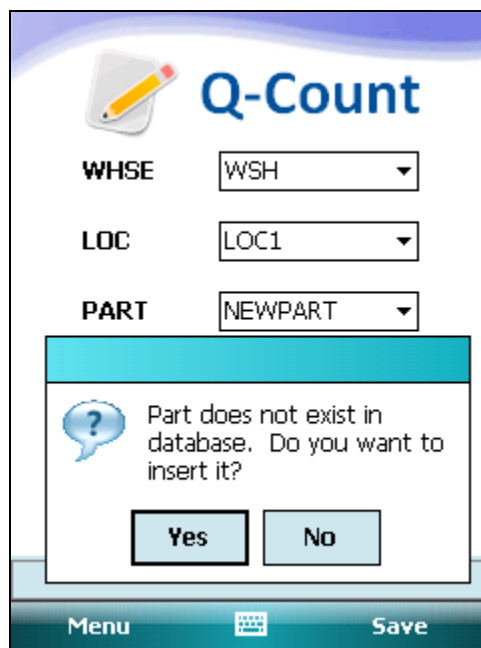


Figure 9: Insert new value prompt

2.4 Cycle Count Report

q-count includes a feature to generate a cycle count summary report. To view the report, click on [Menu] [Report] from the q-count screen.


```

</WhseList>

<LocList>
  <Loc>LOC1</Loc>
  <Loc>LOC2</Loc>
  <Loc>LOC3</Loc>
</LocList>

<PartList>
  <PartItem>
    <Part>02202806</Part>
    <Desc>Wonderful widget</Desc>
    <Serialized>False</Serialized>
    <SerialList>
    </SerialList>
  </PartItem>
  <PartItem>
    <Part>064900407949</Part>
    <Desc>Perpetual pendulum</Desc>
    <Serialized>True</Serialized>
    <SerialList>
      <Serial>SERIAL01</Serial>
      <Serial>SERIAL02</Serial>
      <Serial>SERIAL03</Serial>
      <Serial>SERIAL04</Serial>
    </SerialList>
  </PartItem>
  <PartItem>
    <Part>057700622872</Part>
    <Desc>Complex contraption</Desc>
    <Serialized>True</Serialized>
    <SerialList>
      <Serial>SERIAL05</Serial>
      <Serial>SERIAL06</Serial>
      <Serial>SERIAL07</Serial>
      <Serial>SERIAL08</Serial>
    </SerialList>
  </PartItem>
  <PartItem>
    <Part>06493331</Part>
    <Desc>Tropical tonic</Desc>
    <Serialized>False</Serialized>
    <SerialList>
    </SerialList>
  </PartItem>
</PartList>
</Root>

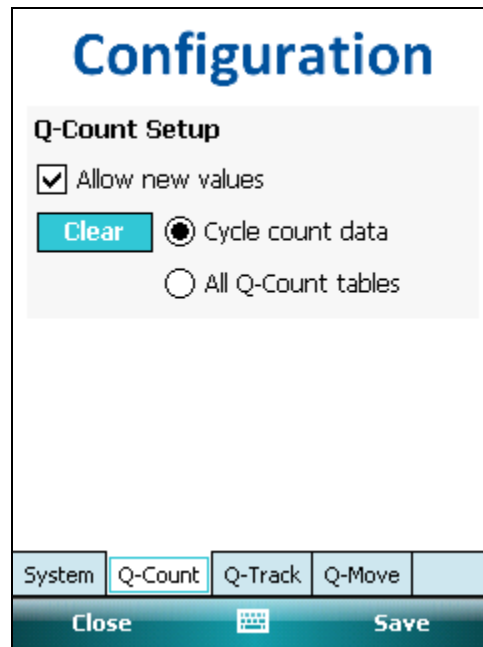
```

All xml data is contained within the <Root> xml tag. <WhseList> contains a list of warehouses to be imported. Similarly, <LocList> holds a list of warehouse locations.

The <PartList> structure holds a list of <PartItem> objects. Each <PartItem> contains a part number <Part>, a description <Desc>, a Boolean true/false <Serialized> attribute and a <SerialList>.

2.6 q-count Configuration

In addition to the general q-suite system configuration, there are also configuration options specific to the q-count module. These can be accessed in the q-count tab as shown below.



The screenshot shows a configuration window titled "Configuration". Inside, there is a section labeled "Q-Count Setup". This section contains a checked checkbox for "Allow new values", a teal "Clear" button, and two radio button options: "Cycle count data" (which is selected) and "All Q-Count tables". Below the configuration options is a horizontal tab bar with four tabs: "System", "Q-Count" (which is highlighted), "Q-Track", and "Q-Move". At the bottom of the window is a dark teal bar with a "Close" button on the left and a "Save" button on the right, separated by a keyboard icon.

Figure 11: Q-count configuration tab

The [Allow new values] checkbox specifies whether new field values can be inserted into the database during the cycle counting process. If the option is unchecked, any input entered that does not match an existing value will be cancelled.

There is also a [Clear] button, which allows the user to purge data from the application. If the [Cycle count data] option is selected, then clicking the [Clear] button will delete only the cycle count data. This allows the user to reset the data when they wish to perform a new cycle count.

When the [All Q-count tables] option is selected, Q-count will purge all data from its tables, including stored inventory information such as part numbers, locations and serials. Use this option before importing a new initial set of data via an xml file. Click [Save] to save settings.

3. q-track

q-track is an asset tracking module; it can be used to gather information and notes on company assets.

3.1 Data Collection Fields

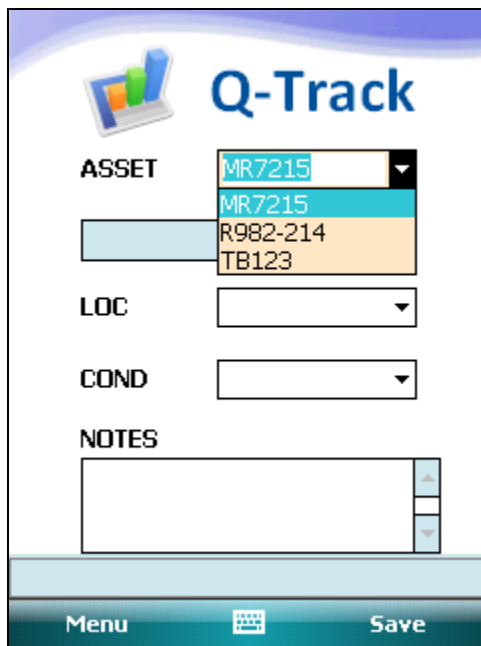
Asset tracking information is gathered through a series of data collection fields shown in the table below.

Field Name	Description	Data Type	Field Length
ASSET	Warehouse	String	32
DESC	Description (Read-only)	String	256
LOC	Location	String	32
COND	Asset condition	String	32
NOTES	Miscellaneous notes	String	512

The ASSET, LOC and COND fields are dropdown lists that can be used optionally to select a value from a list, or scan a value from a barcode. After selecting a value, press 'Enter' to submit the input and the focus will switch to the next sequential field. Alternatively, you may also input a value by scanning a barcode. Repeat this process until all the data fields have been filled and click [Save] to save the data. A more detailed view of the asset tracking process is provided in the following section.

3.2 Asset Tracking Procedure

- 1) Select/scan an asset



The screenshot displays the Q-Track application interface. At the top left is a logo with a bar chart and the text 'Q-Track'. Below the logo are four input fields: 'ASSET', 'LOC', 'COND', and 'NOTES'. The 'ASSET' field is currently open, showing a dropdown menu with three options: 'MR7215' (highlighted in blue), 'R982-214', and 'TB123'. The 'LOC' and 'COND' fields are empty dropdown menus. The 'NOTES' field is a text area with a small icon on the right. At the bottom of the screen is a dark blue bar with the text 'Menu' and 'Save'.

Figure 12: Asset field

After scanning an asset, the description will automatically be populated in the read-only description field below. In addition, the corresponding location, condition and notes field values will be populated (if available) based on the selected asset.

2) Select/scan a location

The screenshot shows the Q-Track mobile application interface. At the top, there is a logo with a bar chart and the text "Q-Track". Below the logo, the "ASSET" field is a dropdown menu showing "MR7215". Underneath, a read-only text field displays "Light fixture". The "LOC" field is a dropdown menu with a list of options: "ALOC3" (highlighted in blue), "ALOC1", "ALOC2", and "ALOC3". The "COND" field is currently empty. The "NOTES" field is a large text area. At the bottom, there is a navigation bar with "Menu", a keyboard icon, and "Save".

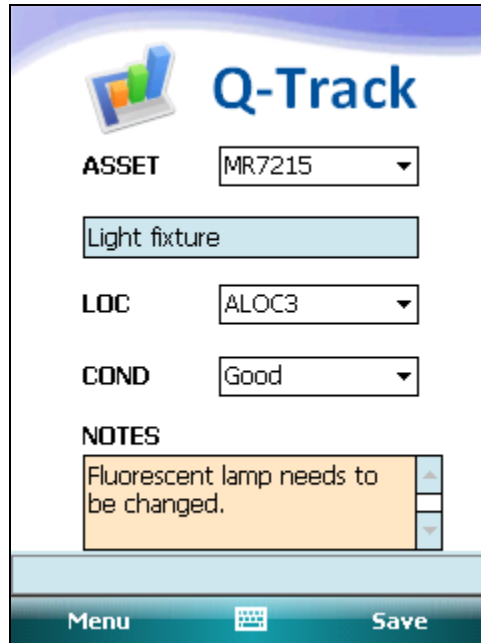
Figure 13: Location field

3) Select an asset condition

The screenshot shows the Q-Track mobile application interface. At the top, there is a logo with a bar chart and the text "Q-Track". Below the logo, the "ASSET" field is a dropdown menu showing "MR7215". Underneath, a read-only text field displays "Light fixture". The "LOC" field is a dropdown menu showing "ALOC3". The "COND" field is a dropdown menu with a list of options: "Good" (highlighted in blue), "Excellent", "Very good", "Good", "Fair", and "Poor". The "NOTES" field is a large text area. At the bottom, there is a navigation bar with "Menu", a keyboard icon, and "Save".

Figure 14: Condition field

4) Record notes related to the asset



The screenshot displays the Q-Track application interface. At the top left is a logo with a laptop and bar chart, followed by the text 'Q-Track'. Below this, there are several input fields: 'ASSET' with a dropdown menu showing 'MR7215', a text field containing 'Light fixture', 'LOC' with a dropdown menu showing 'ALOC3', and 'COND' with a dropdown menu showing 'Good'. Below these fields is a section titled 'NOTES' containing a text area with the text 'Fluorescent lamp needs to be changed.' and a small vertical scroll bar. At the bottom of the screen is a dark blue bar with the text 'Menu' on the left, a small logo in the center, and the text 'Save' on the right.

Figure 15: Notes field

After collecting the required asset-related data, click the [Save] button to save the record. This will store the data that was just entered in a database so that the information can be retrieved for editing at a later time, and also to generate an asset summary report for review and export.

3.3 Asset Track Report

Q-count includes a feature to generate an asset track summary report. To view the report, click on [Menu] [Report] from the Q-track screen.


```

<CondList>
  <CondItem>
    <Cond>Excellent</Cond>
    <Rank>1</Rank>
  </CondItem>
  <CondItem>
    <Cond>Very good</Cond>
    <Rank>2</Rank>
  </CondItem>
  <CondItem>
    <Cond>Good</Cond>
    <Rank>3</Rank>
  </CondItem>
  <CondItem>
    <Cond>Fair</Cond>
    <Rank>4</Rank>
  </CondItem>
  <CondItem>
    <Cond>Poor</Cond>
    <Rank>5</Rank>
  </CondItem>
</CondList>

<AssetList>
  <AssetItem>
    <Asset>TB123</Asset>
    <Desc>Workbench</Desc>
  </AssetItem>
  <AssetItem>
    <Asset>R982-214</Asset>
    <Desc>Liquid canister</Desc>
  </AssetItem>
  <AssetItem>
    <Asset>MR7215</Asset>
    <Desc>Light fixture</Desc>
  </AssetItem>
</AssetList>
</Root>

```

All xml data is contained within the <Root> xml tag. <AssetLoclist> contains a list of asset locations to be imported. <CondList> holds a list of asset conditions. Each <CondItem> in the list must have a <Cond> and <Rank> associated, which is used to sort conditions in descending order when displayed in a dropdown list.

The <AssetList> structure holds a list of <AssetItem> objects. Each <AssetItem> contains an asset number <Asset>, and a description <Desc>.

4. Q-move

Q-move is the inventory management module; it can be used to perform inventory receiving, inventory shipping and inventory transfers. This functionality is organized

into three different sections, each visible as a tab in the Q-move screen as shown below.

Figure 17: Receiving, shipping and transfers tab

4.1 Receiving Tab

4.1.1 Data Collection Fields

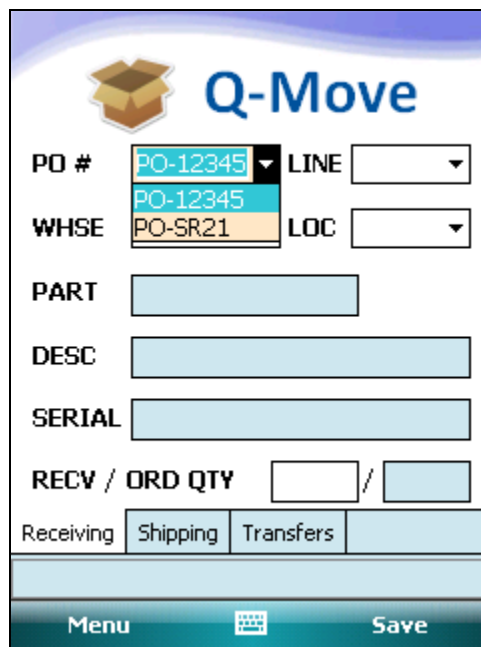
Inventory receiving is performed through a series of data collection fields shown in the table below.

Field Name	Description	Data Type	Field Length
PO #	Purchase order	String	32
LINE	Order line	String	32
WHSE	Warehouse for receiving	String	32
LOC	Location for receiving	String	32
PART	Part number (Read-only)	String	32
DESC	Description (Read-only)	String	256
SERIAL	Serial number	String	64
RECV QTY	Received qty	Integer	N/A
ORD QTY	Order qty remaining to be received (Read-only)	Integer	N/A

The PO #, LINE, WHSE and LOC fields are dropdown lists that can be used optionally to select a value from a list, or scan a value from a barcode. After selecting a value, press 'Enter' to submit the input and the focus will switch to the next sequential field. Alternatively, you may also input a value by scanning a barcode. Repeat this process until all the data fields have been filled and click [Save] to save and confirm the receiving operation. A more detailed view of the inventory receiving process is provided in the following section.

4.1.2 Receiving Procedure

1) Select/scan a PO



The screenshot displays the Q-Move application interface. At the top, there is a logo of a cardboard box and the text "Q-Move". Below the logo, the "PO #" field is active, showing a dropdown menu with three options: "PO-12345", "PO-12345", and "PO-SR21". The "LINE" field is a dropdown menu with a downward arrow. The "WHSE" field is a dropdown menu with a downward arrow. The "LOC" field is a dropdown menu with a downward arrow. Below these fields are input fields for "PART", "DESC", and "SERIAL". The "RECV / ORD QTY" field consists of two input boxes separated by a slash. At the bottom, there are three tabs: "Receiving", "Shipping", and "Transfers". The "Receiving" tab is selected. At the very bottom, there are three buttons: "Menu", a keyboard icon, and "Save".

Figure 18: PO # field

After selecting or scanning a PO #, the line field will automatically populate with the corresponding lines for the purchase order.

2) Select/scan an order line



Q-Move

PO # PO-12345 ▾ LINE 2 ▾
 1
 2
 3

WHSE ▾ LOC 2
 3

PART

DESC

SERIAL

RECV / ORD QTY /

Receiving Shipping Transfers

Menu Save

Figure 19: Line field

After selecting the order line from which to receive the inventory, the part and description fields will be automatically populated with the associated values for the selected order line.

3) Select/scan a warehouse and location to receive the inventory



Q-Move

PO # PO-12345 ▾ LINE 2 ▾

WHSE VCR ▾ LOC LOC1 ▾

PART 057700622872

DESC Complex contraption

SERIAL

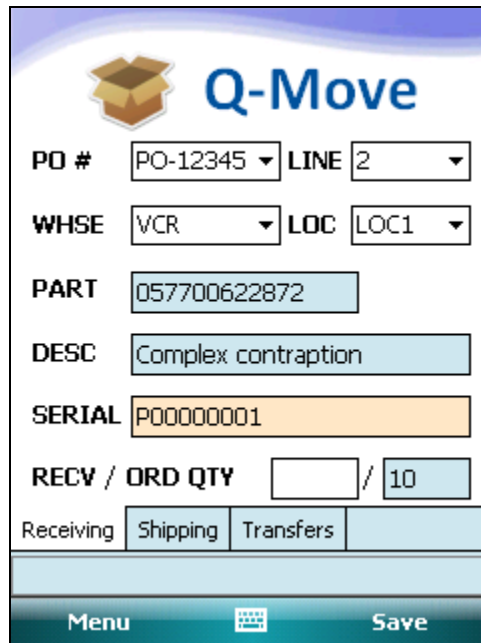
RECV / ORD QTY / 10

Receiving Shipping Transfers

Menu Save

Figure 20: Warehouse and location fields

4) Scan a serial number (if required)

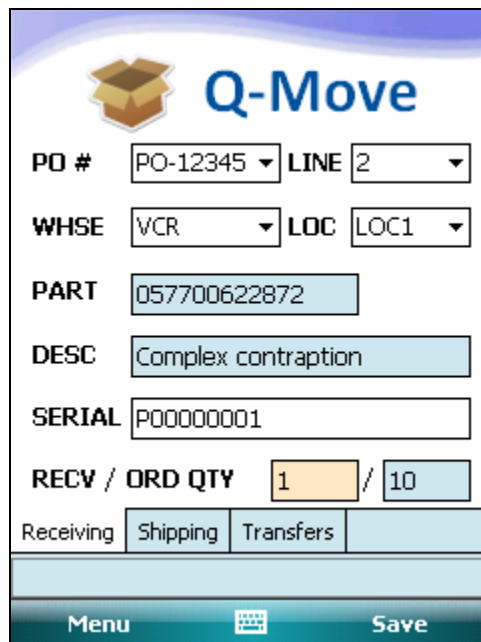


The image shows a mobile application interface for 'Q-Move'. At the top is a logo with a cardboard box icon and the text 'Q-Move'. Below the logo are several input fields: 'PO #' with a dropdown menu showing 'PO-12345', 'LINE' with a dropdown menu showing '2', 'WHSE' with a dropdown menu showing 'VCR', and 'LOC' with a dropdown menu showing 'LOC1'. Below these are text input fields for 'PART' (057700622872), 'DESC' (Complex contraption), and 'SERIAL' (P00000001). The 'SERIAL' field is highlighted with an orange background. Below the 'SERIAL' field is a 'RECV / ORD QTY' section with two input fields, the first of which is empty and the second shows '10'. Below this is a row of four buttons: 'Receiving', 'Shipping', 'Transfers', and an empty button. At the bottom is a dark blue bar with three buttons: 'Menu', a small icon, and 'Save'.

Figure 21: Serial field

If the part that is being received is serialized, the application will prompt you to scan the serial number.

5) Enter the received quantity



The image shows the same mobile application interface as Figure 21, but with the 'RECV / ORD QTY' section updated. The first input field now contains the number '1', and the second input field still shows '10'. The 'SERIAL' field is no longer highlighted. The rest of the interface, including the 'PO #', 'LINE', 'WHSE', 'LOC', 'PART', 'DESC', and bottom navigation bar, remains the same.

Figure 22: Received quantity field

After entering a quantity value, press 'Enter' or click the [Save] button to complete the inventory receiving operation. This will update the inventory and purchase order tables in the database to reflect the items that were received into the warehouse. This information can also be reviewed in a summary report and exported to a text file.

4.2 Shipping Tab

4.2.1 Data Collection Fields

Inventory shipping is performed through a series of data collection fields shown in the table below.

Field Name	Description	Data Type	Field Length
CO #	Customer order	String	32
LINE	Order line	String	32
WHSE	Warehouse for receiving	String	32
LOC	Location for receiving	String	32
PART	Part number (Read-only)	String	32
DESC	Description (Read-only)	String	256
SERIAL	Serial number	String	64
SHIP QTY	Shipped qty	Integer	N/A
ORD QTY	Order qty remaining to be shipped (Read-only)	Integer	N/A

The data collection fields and inventory shipping procedure is very similar to the receiving process, with the exception that instead of receiving inventory, items are shipped from inventory via customer orders. A more detailed view of the inventory shipping process is provided in the following section.

4.2.2 Shipping Procedure

- 1) Select/scan a CO #



Q-Move

CO # LINE

WHSE LOC

PART

DESC

SERIAL

SHIP / ORD QTY /

Receiving Shipping Transfers

Menu  Save

Figure 23: CO # field

After selecting or scanning a CO #, the line field will automatically populate with the corresponding lines for the purchase order.

2) Select/scan an order line



Q-Move

CO # LINE

WHSE LOC

PART

DESC

SERIAL

SHIP / ORD QTY /

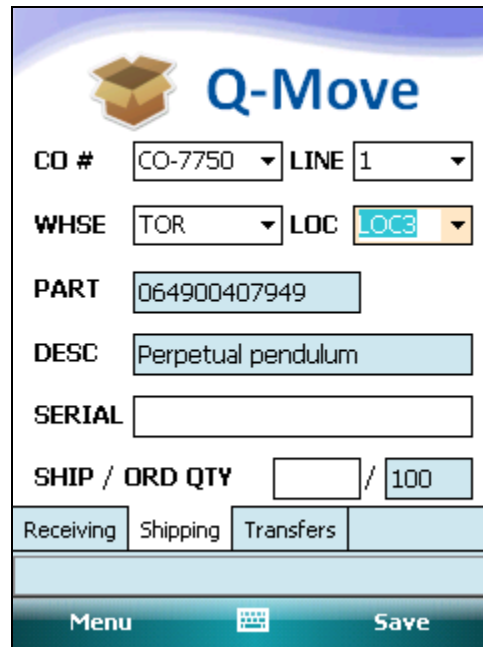
Receiving Shipping Transfers

Menu  Save

Figure 24: Line field

After selecting the order line from which to receive the inventory, the part and description fields will be automatically populated with the associated values for the selected order line.

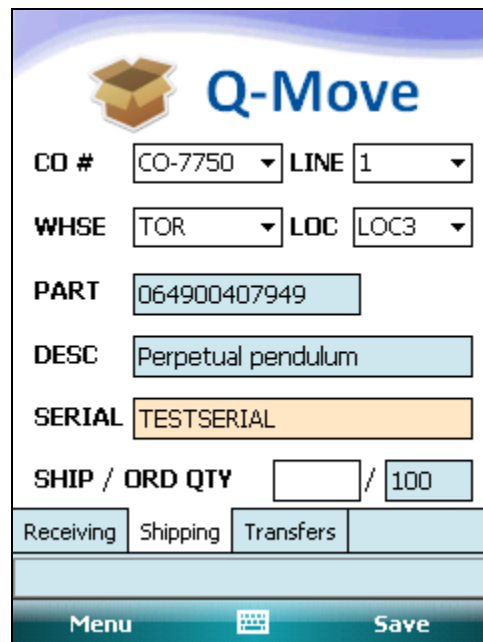
3) Select/scan a warehouse and location to receive the inventory



The image shows a mobile application interface for 'Q-Move'. At the top is a logo with a cardboard box icon and the text 'Q-Move'. Below the logo are several input fields: 'CO #' with a dropdown menu showing 'CO-7750', 'LINE' with a dropdown menu showing '1', 'WHSE' with a dropdown menu showing 'TOR', and 'LOC' with a dropdown menu showing 'LOC3'. Below these are text input fields for 'PART' (containing '064900407949') and 'DESC' (containing 'Perpetual pendulum'). There is an empty 'SERIAL' field. Below the text fields is a 'SHIP / ORD QTY' section with a small input field and a dropdown menu showing '100'. At the bottom of the form are three tabs: 'Receiving', 'Shipping', and 'Transfers'. Below the tabs is a blue bar with 'Menu', a keyboard icon, and 'Save'.

Figure 25: Warehouse and location fields

4) Scan a serial number (if required)



The image shows the same mobile application interface as Figure 25, but with the 'SERIAL' field now containing the text 'TESTSERIAL'. All other fields and the bottom navigation bar remain the same.

Figure 26: Serial field

If the part that is being shipped is serialized, the application will prompt you to scan the serial number.

5) Enter the shipped quantity

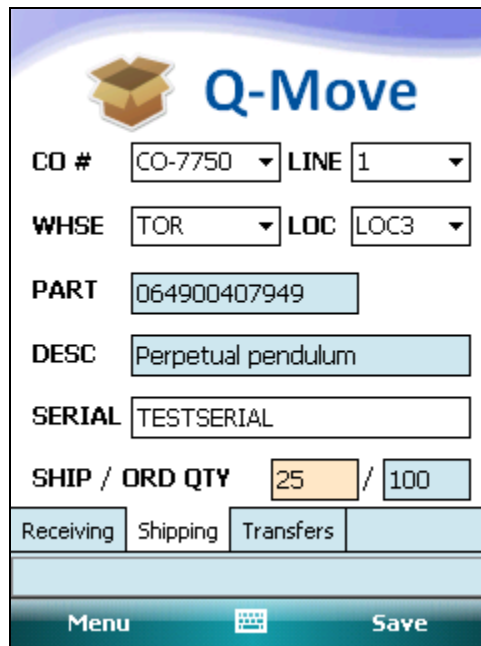
The screenshot shows the Q-Move application interface. At the top is a logo with a cardboard box and the text 'Q-Move'. Below the logo are several input fields: 'CO #' with a dropdown menu showing 'CO-7750', 'LINE' with a dropdown menu showing '1', 'WHSE' with a dropdown menu showing 'TOR', 'LOC' with a dropdown menu showing 'LOC3', 'PART' with a text field containing '064900407949', 'DESC' with a text field containing 'Perpetual pendulum', and 'SERIAL' with a text field containing 'TESTSERIAL'. Below these fields is a 'SHIP / ORD QTY' section with two input fields: '25' and '100'. At the bottom of the form are three buttons: 'Receiving', 'Shipping', and 'Transfers'. Below these buttons is a 'Menu' button and a 'Save' button.

Figure 27: Shipped quantity field

After entering a quantity value, press 'Enter' or click the [Save] button to complete the inventory shipping operation. This will update the inventory and customer order tables in the database to reflect the items that were shipped from the warehouse. This information can also be reviewed in a summary report and exported to a text file.

4.3 Transfer Tab

4.3.1 Data Collection Fields

Inventory transfer is performed through a series of data collection fields shown in the table below.

Field Name	Description	Data Type	Field Length
WHSE1 (left)	Origin warehouse	String	32
LOC1 (left)	Origin location	String	32
WHSE2 (right)	Destination warehouse	String	32

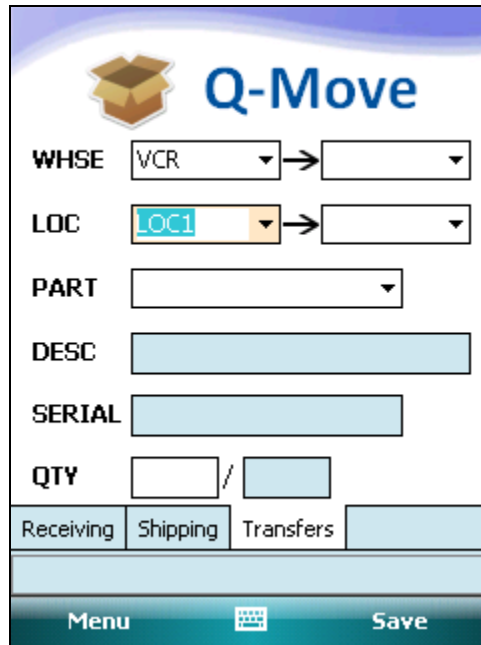
LOC2 (right)	Destination location	String	32
PART	Part number	String	32
DESC	Description (Read-only)	String	256
SERIAL	Serial number	String	64
QTY	Shipped qty	Integer	N/A
INV QTY	Part quantity remaining in inventory (Read-only)	Integer	N/A

Figure 28: Inventory transfer tab

The arrows in the screen above indicate the direction of inventory transfer. The WHSE and LOC fields on the left side of the arrows represent the origin/source of the inventory to be transferred. The corresponding WHSE and LOC fields on the right of the arrows denote the destination for the transfer. A step-by-step illustration of the inventory shipping process is provided in the following section.

4.3.2 Transfer Procedure

- 1) Select/scan an origin warehouse and location for the inventory transfer

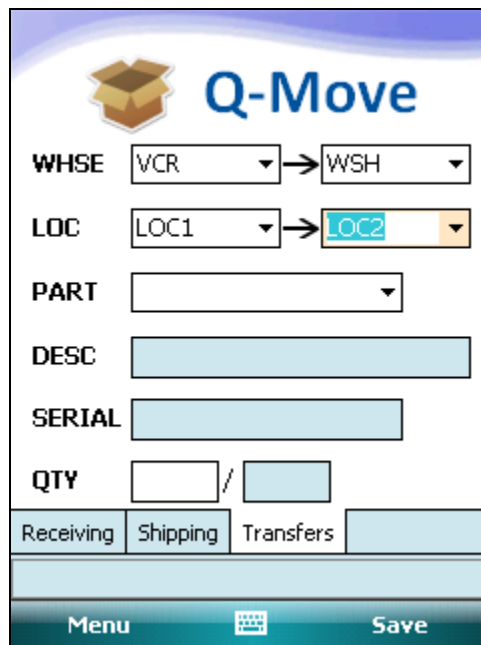


The image shows a mobile application interface titled "Q-Move" with a box icon. It features several input fields and a navigation bar at the bottom. The "WHSE" field is a dropdown menu with "VCR" selected. The "LOC" field is a dropdown menu with "LOC1" selected. The "PART" field is a dropdown menu. The "DESC" field is a text input. The "SERIAL" field is a text input. The "QTY" field consists of two text inputs separated by a slash. Below these fields are three tabs: "Receiving", "Shipping", and "Transfers". The bottom navigation bar contains a "Menu" button, a keyboard icon, and a "Save" button.

Figure 29: Origin warehouse and location

The origin and destination warehouses and locations could be the same, depending on the nature of the inventory transfer.

2) Select/scan a destination warehouse and location



The image shows the same "Q-Move" mobile application interface as Figure 29, but with the destination fields updated. The "WHSE" field now shows "VCR" in the first dropdown and "WSH" in the second dropdown. The "LOC" field now shows "LOC1" in the first dropdown and "LOC2" in the second dropdown. All other fields and the bottom navigation bar remain the same as in Figure 29.

Figure 30: Destination warehouse and location

After selecting the order line from which to receive the inventory, the part and description fields will be automatically populated with the associated values for the selected order line.

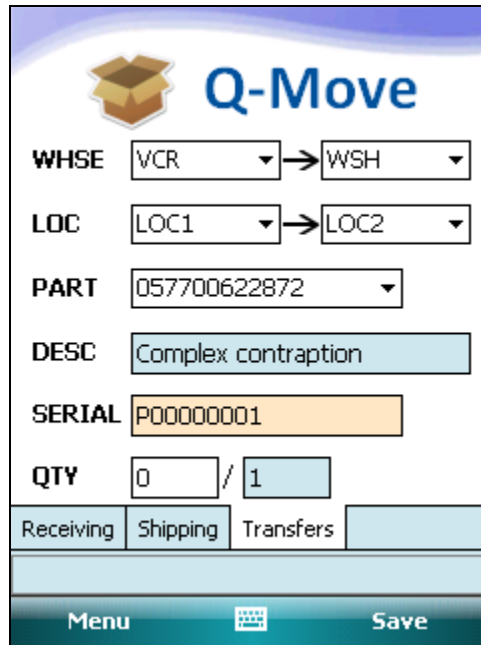
3) Select/scan the part to be transferred

The screenshot displays the 'Q-Move' application interface. At the top, there is a logo of a cardboard box and the text 'Q-Move'. Below the logo, there are two sets of dropdown menus: 'WHSE' with 'VCR' selected and 'WSH' as the target, and 'LOC' with 'LOC1' selected and 'LOC2' as the target. The 'PART' field is active, showing a list of part numbers: '057700622872' (highlighted in blue), '02202806', '064900407949', and '06493331'. The 'DESC' field is also active, showing the description '057700622872'. The 'SERIAL' field is empty. Below these fields, there is a 'QTY' field with a '/' symbol. At the bottom, there are three buttons: 'Receiving', 'Shipping', and 'Transfers'. The 'Receiving' button is highlighted. At the very bottom, there are two buttons: 'Menu' and 'Save'.

Figure 31: Part field

After the part has been entered, the part description field will be populated automatically. In addition, the inventory quantity will be computed (based on the part and the origin warehouse and location).

4) Scan a serial number (if required)



Q-Move

WHSE →

LOC →

PART

DESC

SERIAL

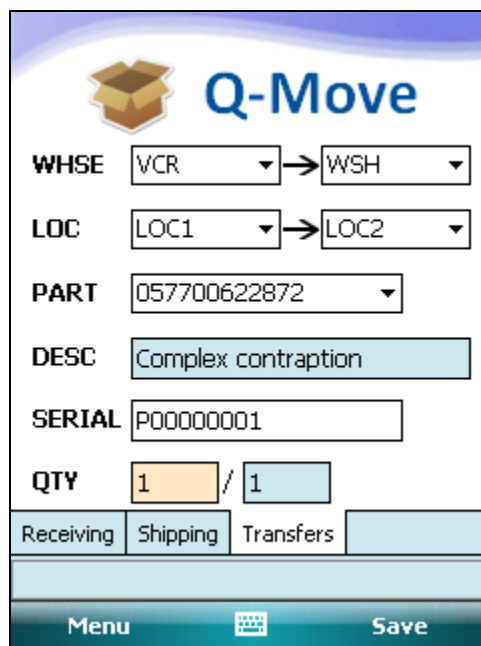
QTY /

Receiving Shipping Transfers

Menu  Save

Figure 32: Serial field

5) Enter the transfer quantity



Q-Move

WHSE →

LOC →

PART

DESC

SERIAL

QTY /

Receiving Shipping Transfers

Menu  Save

Figure 33: Transfer quantity field

After entering a quantity value, press 'Enter' or click the [Save] button to complete the inventory transfer operation. This will update the inventory table to reflect the transfer of part inventory from one warehouse/location to another. As with receiving

and shipping, a summary report of inventory transfers is available for viewing and data export.

4.4 Inventory Reports

There are four different reports available in the Q-move module: inventory, receiving, shipping and transfer. Each report summarizes information relevant to the

Part	Qty	Whse	Loc	Serial
057700622872	1	VCR	LOC1	P000

III

Inventory Receiving Shipping Transfers

Menu

Figure 34: Inventory tab report

This report displays the current inventory levels of all parts, including the quantity available, warehouse/location and serial numbers. The inventory levels will reflect the net result of all receiving, shipping and transfer operations.

Inventory Report				
Whse1	Loc1	Whse2	Loc2	Part
VCR	LOC1	WSH	LOC2	05770062287
Inventory Receiving Shipping Transfers Menu				

Figure 37: Transfer tab report

Lastly, the transfer tab report displays all of the inventory transfer operations that have been completed.

4.5 Importing Data

The Q-move module uses the same PartData.xml file as Q-count to import part-related data such as part numbers, descriptions and warehouse/location lists.

In addition, an OrderData.xml file is also required, which defines a list of purchase orders and customer orders to be fulfilled using the receiving and shipping functions. The structure of the OrderData.xml file is explained below.

```
<?xml version="1.0" encoding="utf-8" ?>
<Root>
  <POList>
    <POLitem>
      <PO>PO-12345</PO>
      <Date>1/31/2009</Date>
      <LineList>
        <LinItem>
          <Line>1</Line>
          <Part>02202806</Part>
          <OrderQty>25</OrderQty>
        </LinItem>
        <LinItem>
          <Line>2</Line>
          <Part>05770062287</Part>
```

```

        <OrderQty>10</OrderQty>
    </LineItem>
    <LineItem>
        <Line>3</Line>
        <Part>06493331</Part>
        <OrderQty>12</OrderQty>
    </LineItem>
</LineList>
</POItem>
<POItem>
    <PO>PO-SR21</PO>
    <Date>1/31/2009</Date>
    <LineList>
        <LineItem>
            <Line>1</Line>
            <Part>064900407949</Part>
            <OrderQty>100</OrderQty>
        </LineItem>
        <LineItem>
            <Line>2</Line>
            <Part>06493331</Part>
            <OrderQty>50</OrderQty>
        </LineItem>
    </LineList>
</POItem>
</POList>

<COList>
    <COLItem>
        <CO>CO-912QT</CO>
        <Date>1/31/2009</Date>
        <LineList>
            <LineItem>
                <Line>1</Line>
                <Part>02202806</Part>
                <OrderQty>25</OrderQty>
            </LineItem>
            <LineItem>
                <Line>2</Line>
                <Part>057700622872</Part>
                <OrderQty>10</OrderQty>
            </LineItem>
            <LineItem>
                <Line>3</Line>
                <Part>06493331</Part>
                <OrderQty>12</OrderQty>
            </LineItem>
        </LineList>
    </COLItem>
    <COLItem>
        <CO>CO-7750</CO>
        <Date>1/31/2009</Date>
        <LineList>
            <LineItem>
                <Line>1</Line>

```

```
<Part>064900407949</Part>
<OrderQty>100</OrderQty>
</LineItem>
<LineItem>
  <Line>2</Line>
  <Part>06493331</Part>
  <OrderQty>50</OrderQty>
</LineItem>
</LineList>
</COLItem>
</COLList>
</Root>
```

The <POList> contains a list of purchase orders to be imported. Each <POLItem> in the list has a <PO> and <Date> field as well as a <LineList>, which holds an array of <LineItem> elements that belong to the purchase order. Each <LineItem> specifies the line number, <Line>, part number <Part>, and order quantity, <OrderQty>. Using this format, it is possible to define any number of purchase orders to be imported to the application.

The <COList> structure is nearly the same as the <POList>, except that the data contained within this section is used for specifying a list of customer orders.



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